

Applicants submit concurrently herewith a Declaration of Jack L. Strominger, M.D., D.Sc., under 37 C.F.R. § 1.132, with its Exhibits A-K*.

Kindly amend the application as follows:

IN THE CLAIMS**:

Please amend claims 78 and 79 to read as follows:

78. (Amended) An HLA-DR typing process comprising the steps of:

(a) hybridizing DNA in a sample to be typed to a DNA sequence, said DNA sequence being capable of hybridizing to a polymorphic region of an HLA-DR- β chain locus of the human lymphocyte antigen complex to allow determination of one or more HLA-DR alleles, said polymorphic region being encoded by a DNA sequence selected from the group consisting of:

(i) DNA sequences encoding a majority of the amino acid sequence of amino acids 8-14, 26-32 or 72-78 of a polypeptide sequence coded for by DNA insert DR- β -A, DR- β -B or DR- β -C;

* Applicants' representatives intend to file the executed version of the Strominger Declaration upon receipt from the declarant.

** The amendments to the Claims, are indicated in the Appendix hereto (Exhibit A) for the Examiner's convenience.

- (ii) DNA sequences which are allelic variants
of any of the foregoing DNA sequences;
and
- (iii) DNA sequences which are fully
complementary to any of the foregoing
sequences, and
- (b) detecting areas of hybridization between said DNA
in said sample and said DNA sequence.

79. (Amended) An HLA-DR typing process comprising the
steps of:

(a) restricting a first DNA isolated from an individual
to be typed with at least one restriction endonuclease;

(b) size-fractionating said restricted DNA;

(c) hybridizing said size-fractionated DNA to be typed
to a second DNA, said second DNA being capable of hybridizing to
a polymorphic region of an HLA-DR- β chain locus of the human
lymphocyte antigen complex to allow determination of one or more
HLA-DR alleles, said polymorphic region being encoded by a DNA
sequence selected from the group consisting of:

- (i) DNA sequences encoding a majority of the
amino acid sequence of amino acids 8-14,
26-32 or 72-78 of a polypeptide sequence

coded for by DNA insert DR- β -A, DR- β -B or DR- β -C;

(ii) DNA sequences which are allelic variants of any of the foregoing DNA sequences;

and

(iii) DNA sequences which are fully complementary to any of the foregoing sequences, and

(d) detecting areas of hybridization between said size-fractionated DNA and said second DNA.

REMARKS

The Rejections Under 35 U.S.C. § 112, First Paragraph

Claims 76-79 and 82-102 stand rejected under 35 U.S.C. § 112, first paragraph, "as containing subject matter which was not described in the specification in such a way as to reasonably convey to one of skill in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention." As recognized by the Examiner:

"[t]he specification has described polynucleotides consisting of DR-beta-A, -B, and -C, and describe the regions within the polypeptide encoded by these polynucleotides, i.e. amino acids 8-14, 24-32, and 72-78 which are variable between -A, -B and -C and a region which is conserved between -A, -B and -C, i.e. amino acids 38-45 and describes